

Applicants: Collin J. Weber et al.  
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**Amendments to the Claims**

This listing of claims will replace all prior versions and listings of claims in the application:

1-69. (Canceled)

70. (Currently Amended) A method for transplanting into a subject a viable xenogeneic cell or tissue comprising:

- (a) transplanting the cell or tissue into the subject, wherein the cell or tissue is surrounded by a semipermeable membrane that is impermeable to immunoglobulins; and
- (b) treating the subject with a prophylactically effective amount of CTLA4 or CTLA4Ig, wherein the cell surrounded by the semipermeable membrane and the CTLA4 or CTLA4Ig have a synergistic effect so as to inhibit the destruction of the transplanted cell or tissue by the subject's immune system.

71. (New) The method of claim 70, wherein the semipermeable membrane comprises polylysine-alginate.

72. (New) The method of claim 70, wherein the semipermeable membrane is a microcapsule.

73. (New) The method of claim 70, wherein the semipermeable membrane is double-walled.

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74. (New) The method of claim 70, wherein the subject is a mammal.
75. (New) The method of claim 70, wherein the subject is selected from the group consisting of a cow, a calf, a pig, a sheep, a lamb, a horse, a chicken and a human.
76. (New) The method of claim 75, wherein the subject is a human.
77. (New) The method of claim 70, wherein the xenogeneic donor is a mammal.
78. (New) The method of claim 77, wherein the mammal is selected from the group consisting of a pig, a cow, a calf, a sheep, a lamb and a human.
79. (New) The method of claim 70, wherein the viable cell or tissue secretes a hormone which promotes growth in an animal.
80. (New) The method of claim 70, wherein the viable cell or tissue comprises an endocrine cell or tissue.
81. (New) The method of claim 80, wherein the endocrine cell or tissue is selected from the group consisting of an insulin-producing cell or tissue, a hepatocyte or hepatic tissue, a parathyroid cell or tissue and a pituitary cell or tissue.